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- (71) Applicant and
(72) Inventor: LINDMAYER, S., István [HU/HU]; Homokh-
egy u. 12, H-7228 Döbrököz (HU).
- (74) Agent: POLGÁR, Iván; DeveloPat Patent & Trademark
Agency, P.O. Box 21, H-1400 Budapest (HU).

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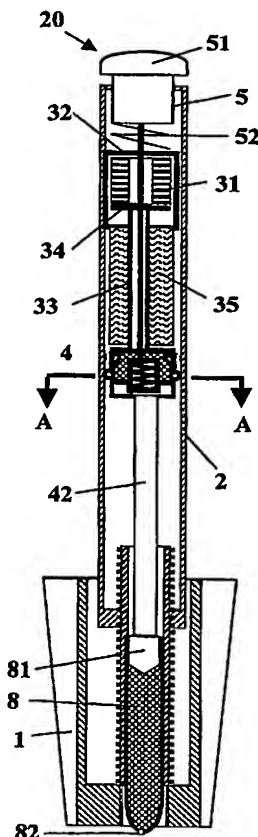
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- (54) Title: NEEDLELESS INJECTION DEVICE AND CARTRIDGES



(57) Abstract: A needleless injection device (20) with a lower part (1) receiving the agent cartridge (8) and an upper part (2) providing the energy needed for injection; the upper part contains energy store units capable of elastic form-change, while the lower part is attached to the upper part revolving manner, as known in itself, in a way that rotating it in relation to the upper part, it does constrained movement in the direction of the device's longitudinal axis, approaching the upper part, and results the tension state of the energy storage structural elements; furthermore, the device has a lock (4) maintaining the tension of the energy storage units (3) and component to release the lock. Among the energy storage structural parts there is at least one start unit (31), capable of storing min. 60 %, in this case 80-90 % of the total discharge energy (pressure), with the reversible elastic distortion at max. 25 %, practically 15-20 % of the internal length of the agent cartridge (8); wherein the device is provided with separate structural components for stretching the start unit and limit its relaxation.



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